

ABSTRACT

A liquid crystal display element 10 is composed of a pair of boards 11 and 15 that sandwiches liquid crystals 13 having negative dielectric anisotropy, wherein one of the pair of boards 11 and 15 is a transparent board 11, the liquid crystal display element 10 is further composed of inorganic alignment layers 12 and 14 provided on each side of the pair of boards 11 and 15, which faces toward the liquid crystals 13, so as to orientate a pre-tilt angle of the liquid crystals 13 to 3 to 10 degrees.